Approved For Release 2002/09/03: CIA-RDP63-00313A000500010105-0

25X1

25X1

NRO REVIEW COMPLETED

2 July 1962

INCHAIDUM MOR : Deputy Director (Research)

SUBJECT

I ARXII Hondiness

1. A conference was held on 26 June 1962 with Army, Air Force and the ARGON contractors to review progress on the solution of problem areas.

2. In brief, the following items were discussed and action, as indicated, was recommended:

A. Stallar Emposure Test With CORONA Horizon Photography Mission 707 had one set of horizon option set at 1/25th of a second and the red filter removed. A few samples of this material were hard carried by NPIC personnel to this meeting. The immediate regions showed that stellar images were not obvious. AND is evaluating these items to verify or deny stellar acquisition. The stellar photos that were acquired on 9032 were not obvious either at first, so we may not know about this item for several more days and we may have to wait until the original negative of 9037 is delivered. ANS was also requested to go back through Musican 9029, especially the borison photography on 50-130 smulsion, and siteset to identify stars. We do not have a estisfactory answer to this problem as yet and plan further testing with one set of CONOMA herison optics. Table the optics are different, we should be sole to arrive at some bardio existence data.

B. Place Testes LMSC reported the results of a simulated flare test run on the ANON essers system at Palo Alto. The test verified the critical nature of flare on the density of the image. Several baffies were tested to reduce flare and it was determined that the best compressed is a "D" shaped heffle which only cuts off a sull portion of the bottom of the horizon with vignetting only up to 10 degrees. The best baffle is a circular one, but this would gut out most of the stars and was obviously unacceptable.

CASS	لگاند		l

25X1

that stopping down the aperture on the terrain lens might actually increase the over-all resolution about 10 to 15 lines/mm. This is a second choice over changing film type (50-102 to 50-130) to resolve the exposure problem with a fixed 1/500 of a second terrain shutter. Fairchild was instructed to test a lens to verify resolution improvement. An available aperture stop was reviewed and approved for use, if the stellar exposure tests result in a decision to use 50-102 rather than 50-130. This is a simple fixed installation and would not effect reliability. Decision will be deferred until tests are made.

3. This outlines the more important items under study at present and points out the need for more time to verify tests prior to committing another ARCH to flight. Another general technical meeting is planned for 12 duly in Vachington.

JAMES A. CUMEINMAN, JR. Acting Assistant Director (Special Activities)

DD/OSA (2 July 1962) Distribution: 142-OD/R 3-AD/SA 4-C/SRS/OSA 5-C/OD/OSA 6-DD/OSA 7-HID/OSA 8-DD/OSA (Chrono)

25X1